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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/024,242	12/21/2001	John D. Sotack	A1031	3336

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EXAMINER

BHAT, ADITYA S

ART UNIT PAPER NUMBER

2863

DATE MAILED: 05/05/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/024,242	SOTACK, JOHN D.	
	Examiner	Art Unit	
	Aditya S. Bhat	2863	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 28 April 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-21 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-21 is/are rejected.
- 7) ☐ Claim(s) 5 and 19 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 21 December 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-4, 6-7, 12-17, 19 and 21 are rejected under 35 U.S.C. 102(b) as being anticipated by Davis (USPN 5,017,059).

With regards to claim 1, Davis (USPN 5,017,059) teaches an aberrant component detection method comprising:

storing, in a computer memory, a reference current indicative of proper functioning of a particular component; (Col. 13, lines 50-53)

sensing current supplied to a group of components (11, 64, 100, 101; figure 10) including the particular component; (Col. 13, lines 41-46) (104; figure 10)

comparing the current supplied to the group of components to the reference current; and (Col. 13, lines 46-47)

recording a result of comparing the current to the reference current. (Col. 13 lines 50-54)

With regards to claim 12, Davis (USPN 5,017,059) teaches an aberrant component detection method comprising

recording a result of comparing a sensed current to a reference current, the sensed current being supplied to a group of components (11, 64, 100, 101; figure 10)

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including the particular component, the reference current being indicative of proper functioning of a particular component and being stored in a computer memory. (Col.13 lines 50-54)

With regards to claim 19, Davis (USPN 5,017,059) teaches an aberrant component detection method comprising:

storing, in a computer memory, a reference current indicative of proper functioning of a particular component; (Col. 13,lines 50-53)

sensing current supplied to a group of components (11,64,100,101;figure 10) including the particular component while only the particular component draws current: (Col.13, lines 41-46) (104; figure 10)

comparing the current supplied to the group of components to the reference current; and (Col.13, lines 46-47)

recording a result of comparing the current to the reference current, (Col.13 lines 50-54) wherein recording a result comprises at least one of storing the result in a computer memory (Col. 13,lines 50-53) displaying an alert when there is a discrepancy between the reference current and the current supplied to the group of components, (Col. 5, lines 60-63) and recording *the* circuit to which current was supplied during sensing. (Col.13, lines 50-53)

With regards to claim 2, Davis (USPN 5,017,059) recording a result comprises storing the result in a computer memory. (Col.13, lines 50-53)

With regards to claims 3, 14 and 15 Davis (USPN 5,017,059) teaches the computer memory being non-volatile. (100;figure 10)

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With regards to claim 4 and 13, Davis (USPN 5,017,059) teaches recording a result comprises displaying an alert when there is a discrepancy between the reference current and the current supplied to the group of components. (Col. 5, lines 60-63)

With regards to claim 6 and 16, Davis (USPN 5,017,059) teaches sensing current includes sensing while only the particular component draws current. (Col. 13, lines 43-44)

With regards to claim 7 and 17, Davis (USPN 5,017,059) teaches further comprising allowing access to recorded results. (Col.14, lines 26-27)

With regards to claim 21, Davis (USPN 5,017,059) teaches particular component is itself a group of components and the method is applied recursively to identify an aberrant particular component within the particular component. (11,64,100,101;figure 10)

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 8-11, 18 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Davis (USPN 5,017,059) in view of Motoyama (USPN 5,887,216).

Davis (USPN 5,017,059) teaches an aberrant component detection method comprising: storing, in a computer memory, a reference current indicative of proper functioning of a particular component; (Col. 13,lines 50-53) sensing current supplied to

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a group of components(11,64,100,101;figure 10) including the particular component;

(Col.13, lines 41-46) (104; figure 10) comparing the current supplied to the group of

components to the reference current; and (Col.13, lines 46-47)

recording a result of comparing the current to the reference current. (Col.13 lines 50-54)

Davis (USPN 5,017,059) does not explicitly disclose allowing access comprises providing a connection to and allowing access via a computer network. (Col.4, lines 61-63)

Davis (USPN 5,017,059) does not explicitly disclose the computer network is the Internet. (Col.4, lines 51)

Davis (USPN 5,017,059) does not explicitly disclose the allowing access comprises providing a user interface via an on-board display. (Col.8, lines 20-21)

Davis (USPN 5,017,059) does not explicitly disclose allowing access comprises providing a port, allowing connection of a computer to the port, and providing access with the connected computer to the stored results. (Col. 5, lines 30-40)

Davis (USPN 5,017,059) does not explicitly disclose providing a connection to via a computer network (Col.4, lines 61-63), providing a user interface via an onboard display (Col.8, lines 20-21), and providing access via a computer connected to a direct-connect port. (Col.4, lines 61-63),

With regards to claim 8, Motoyama (USPN 5,887,216) teaches allowing access comprises providing a connection to and allowing access via a computer network. (Col.4, lines 61-63)

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With regards to claim 9, Motoyama (USPN 5,887,216) teaches the computer network is the Internet. (Col.4, lines 51)

With regards to claim 10, Motoyama (USPN 5,887,216) teaches the allowing access comprises providing a user interface via an on-board display. (Col.8, lines 20-21)

With regards to claim 11, Motoyama (USPN 5,887,216) teaches allowing access comprises providing a port, allowing connection of a computer to the port, and providing access with the connected computer to the stored results. (Col. 5, lines 30-40)

With regards to claim 18 and 20, Motoyama (USPN 5,887,216) teaches providing a connection to via a computer network (Col.4, lines 61-63), providing a user interface via an onboard display (Col.8, lines 20-21), and providing access via a computer connected to a direct-connect port. (Col.4, lines 61-63),

It would be obvious to one skilled in the art at the time of the invention to modify the Davis reference to include the teachings to Motoyama in order to arrive at the claimed invention, so that the sensed conditions that are abnormal could be user defined. (Col.1, lines 51-52)

Claim Objections

Claims 5 and 19 are objected to because of the following informalities: "the circuit does not have proper antecedent basis. Appropriate correction is required.

Response to Arguments

Applicant's arguments with respect to claims 1-21 have been considered but are moot in view of the new ground(s) of rejection.

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Conclusion

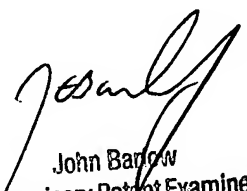
The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Anholm Jr. et al. (USPN 5,043,655) teaches a current sensing buffer for digital signal line testing, Cooper et al. teaches a automatic tunnel detector for a self propelled traction vehicle,

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Aditya S Bhat whose telephone number is 703-308-0332. The examiner can normally be reached on M-F 9-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Barlow can be reached on 703-308-3126. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-5841 for regular communications and 703-308-5841 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

Aditya Bhat
April 28, 2005


John Barlow
Supervisory Patent Examiner
Technology Center 2800